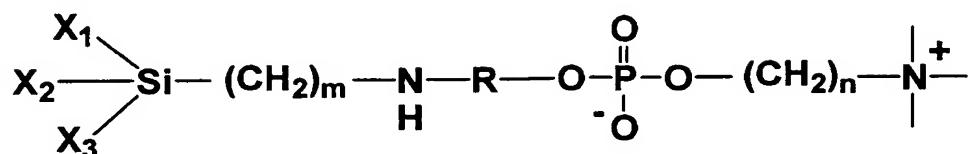


CLAIMS

[Claim 1]

A phosphorylcholine group-containing
5 chemical compound represented by the following
formula (1).



(1)

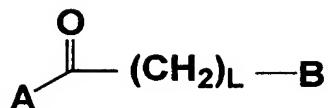
In this formula, m denotes 2-6 and n denotes
10 1-4.

X_1 , X_2 , and X_3 , independent of each other,
denote a methoxy group, ethoxy group, or halogen.
Up to two of X_1 , X_2 , and X_3 can be any of the
following groups: a methyl group, ethyl group,
15 propyl group, isopropyl group, butyl group, or
isobutyl group.

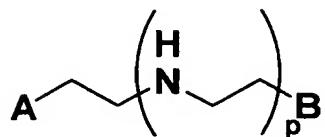
R is one of the structures in the following
formulas (2)-(4) (the chemical compound of formula
(1) in the structures of the following formulas
20 (2)-(4) is expressed as A-R-B).

A— $(\text{CH}_2)_L$ —B

(2)



(3)

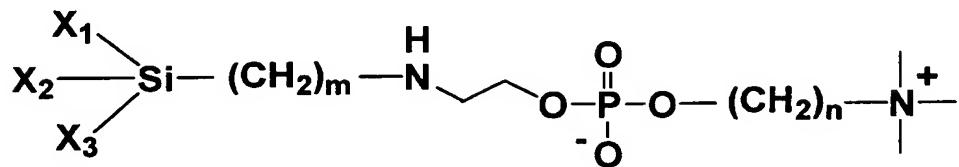


(4)

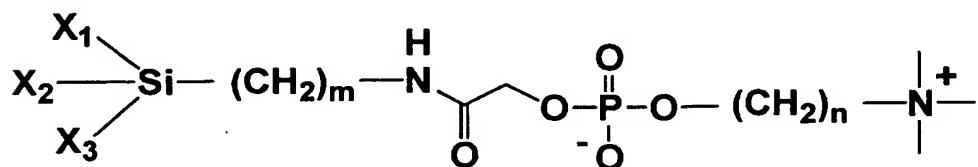
5 In formulas (2) - (4), L is 1-6, and P is 1-3.

[Claim 2]

A phosphorylcholine group-containing chemical compound represented by the following formula (5) or (6).



(5)



(6)

In this formula, m denotes 2-6 and n denotes 15 1-4. X_1 , X_2 , and X_3 , independent of each other, denote a methoxy group, ethoxy group, or halogen. Up to two of X_1 , X_2 , and X_3 can be any of the following groups: a methyl group, ethyl group,

propyl group, isopropyl group, butyl group, or isobutyl group.

[Claim 3]

A surface modifier consisting of the
5 phosphorylcholine group-containing chemical
compound of claim 1 or 2.

[Claim 4]

A method of manufacturing the compound
represented by said formula (6) in which a
10 compound having a phosphorylcholine group and a
carboxyl group is synthesized by means of an
oxidation reaction of glycerophosphorylcholine
using sodium periodate and ruthenium trichloride
and synthesis is carried out by using a
15 condensation agent on an organic silane compound
having an amino group and the compound having a
phosphorylcholine group and a carboxyl group.

[Claim 5]

Modified powder treated with the surface
20 modifier of claim 3.

[Claim 6]

A chromatography packing consisting of a
modified carrier treated with the surface modifier
of claim 3.

25 [Claim 7]

A modified filter treated with the surface modifier of claim 3.

[Claim 8]

A glass experimental device whose surface is
5 treated with the surface modifier of claim 3.